DO NOT ENTER

- CSK BOE-110/03-1277

CLAIM AMENDMENTS – LISTING OF CLAIMS

This listing will replace all prior versions, and listings of claims in the application.

Please amend the claims as follows:

- which has a relative density of at least 96%, said method comprising: a) providing a powder blend which comprises a powdered parent metal alloy, a powdered lower-melting-temperature alloy that comprises greater than 10% of the total weight of the powdered blend, and an organic polymer component that comprise less than 3% by weight of the total weight of the powdered blend; b) performing a layer-build powder processing operation to fabricate a green body having a relative density of at least 58% by laying down successive layers of the powder blend and sintering the layers in accordance with a predetermined pattern; c) positioning the green part in a chamber of the furnace and raising the temperature in the chamber to reduce the organic polymer and then accomplish a supersolidus liquid phase sintering operation to form the metal part that by sinter densification obtains a relative density of at least 96%, wherein the supersolidus liquid phase sintering operation occurs predominately in a temperature range between about 2252 °F to about 2260 °F with a hold time at a maximum holding temperature of ten minutes or less.
- 2. (Original) The method of claim 1, wherein said polymer comprises two polymers.
- 3. (Original) The method as recited in claim 2, wherein said two polymers comprise a thermoplastic polymer and a thermosetting polymer.